

**ILISSA B. OCKO**

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**EDUCATION**

Ph.D. Candidate in Atmospheric and Oceanic Sciences, Princeton University, 2008-

M.A. in Atmospheric and Oceanic Sciences, Princeton University, 2010

B.S.E in Earth System Science and Engineering, Minor in Math, University of Michigan, 2008

**CERTIFICATES**Summer School Certificate, Arctic Climate Change, Norwegian Institute for Air Research,  
Svalbard, Norway, 2009Summer School Certificate, Physics of the Climate System, Utrecht University, Utrecht, the  
Netherlands, 2008**RESEARCH EXPERIENCE**

- 2008- Graduate Student, AOS Program, Princeton University  
Advisor: Dr. V. Ramaswamy  
Ph.D. thesis: Studying the emission, transport and impact of aerosols on  
climate using a global climate model
- 2007-2008 Research Assistant, AOSS, University of Michigan  
Advisor: Dr. Christiane Jablonowski  
Research: Analyzed transformed eulerian mean using NCAR NCL
- 2007 Summer Intern, Physical Sciences Division, NOAA Earth System Research Lab  
Advisor: Taneil Uttal  
Research: Designed an automated method to calculate HYSPLIT back-  
trajectories for IPY project
- 2006-2007 Research Assistant, AOSS, University of Michigan  
Advisor: Dr. Mary Anne Carroll  
Research: Using tropospheric ozone as a proxy for pollution, I  
statistically analyzed the climatology of northern Michigan in order to  
determine exposure to pollution
- 2006 Summer REU Participant, Biosphere-Atmosphere Studies in a Changing Global  
Environment, University of Michigan Biological Station  
Advisor: Dr. Mary Anne Carroll  
Research: Studied climatology of UMBS by calculating back-trajectories  
from 1999-2005; compared flow patterns with net ecosystem exchange,  
vapor pressure deficit, soil moisture and tropospheric ozone levels
- 2006 Summer Field Researcher, Greenland, AOSS, University of Michigan  
Advisors: Dr. Perry Samson and Dr. Robert Clauer  
Tasks: Employed two instruments in Kangerlussuaq, Kellyville and  
Summit, Greenland; analyzed data; created a video from footage to  
disseminate experience to Michigan students
- 2005-2006 Research Assistant, Undergraduate Research Opportunity Program, University of  
Michigan  
Advisor: Dr. Daniel C. Fisher  
Research: Casted models of ice age mastodon skeletons and pieced  
together recently excavated tusks

**PROFESSIONAL EXPERIENCE**

- 2011- Freelancer, Graphic Design, Climate Central, Princeton, NJ  
Design graphics depicting climate scientific processes to complement  
news articles and educate the public
- 2009-2010 Conference Organizer, IMAGINE a Sustainable World, Princeton University

- Coordinated a one-day sustainability conference for students and public with three panels of experts, two keynote speakers, and poster session
- Website and Advertisement Committee Heads
- 2009 Webpage Designer, NOAA Geophysical Fluid Dynamics Laboratory
  - Designed a webpage for Princeton AOS program on GFDL website
- 2006-2008 Weather Anchor, Newsfeed, WOLV TV, University of Michigan
  - Broadcasted weather forecast on student-run television network
  - Chief meteorologist 2007-2008

## SCIENTIFIC SOCIETIES

Association of Polar Early Career Scientists  
Earth Science Women's Network  
American Meteorological Society  
American Geophysical Union  
Order of Omega National Honor Society  
Delta Epsilon Iota Academic Honor Society  
Michigan Society of Undergraduate Earth System Scientists and Engineers, President 2007-2008  
American Meteorological Society, University of Michigan Chapter

## UNIVERSITY ACTIVITIES

Residential Graduate Student, Academic Coordinator, Rockefeller College, Princeton (2010-)  
Princeton Energy and Climate Scholars (2010)  
Princeton University AOS Program Faculty-Student Liaison (2009-2010)  
Princeton University Graduate Student Government Assembly (2009-2010)  
University of Michigan College of Engineering Undergrad Student Advisory Board (2007-2008)

## HONORS

- 2011 Outstanding Student Poster Presentation, American Meteorological Society (AMS)
- 2009 NSF Graduate Research Fellowship
- 2008 AMS Industry/Government Graduate Fellowship, NOAA Climate Program Office
- 2008 University of Michigan B.S.E Magna Cum Laude
- 2008 University of Michigan James B. Angell Scholar
- 2008 Outstanding Student Leader Award Honorable Mention, UM Office of Student Activities
- 2007 First Place Winner, UM Best Student Paper on Environmental Issues & Climate Change
- 2007 Weather Underground Inc. Scholarship
- 2006 Eliza Ann Roark Scholarship
- 2006 Marian Sarah Parkers Scholarship
- 2006 NOAA Ernest F. Hollings Scholarship

## SKILLS

Programming: C++, Matlab, Mathematic, Maple, IGOR Pro, TCL, NCL, HTML, IDL  
Visualization: Matlab, NCL, GrADS, IDL  
Software: Adobe (Photoshop, Illustrator, Dreamweaver), NewTek VT

## CONFERENCES

- 2011 90<sup>th</sup> Annual AMS Meeting, Seattle, WA (poster presentation and AOS recruiter)
- 2010 22<sup>nd</sup> Montreal Protocol Meeting of the Parties, Bangkok, Thailand (observer/interviewer)
- 2010 89<sup>th</sup> Annual AMS Meeting, Atlanta, GA (student attendee and AOS recruiter)
- 2009 88<sup>th</sup> Annual AMS Meeting, Phoenix, AZ (student attendee and AOS recruiter)
- 2008 87<sup>th</sup> Annual AMS Meeting, New Orleans, LA (student attendee)

## OUTREACH

Graduate School Information Seminars for Rider University students (two talks, 2010/2011)  
Graduate School Information Seminar for NOAA GFDL summer interns (talk, 2009)  
Middle School Science Olympiad Workshop (volunteer, 2008)  
Graduate School Information Seminar for University of Michigan students (talk, 2008)